

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Koistinen                      Examiner: UNKNOWN  
Serial No.: TO BE ASSIGNED              Group Art Unit: TO BE ASSIGNED  
Filed: August 1, 2001                      Docket No.: 975.354USW1  
Title: TONE DETECTION ELIMINATION

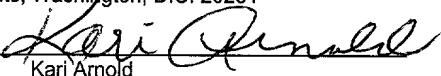
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'Express Mail' mailing number: EL733008765US

Date of Deposit: August 1, 2001

The undersigned hereby certifies that this Transmittal Letter and the paper or fee, as described herein, are being deposited with the United States Postal Service 'Express Mail Post Office To Addressee' service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

By:   
Kari Arnold

PRELIMINARY AMENDMENT

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please enter the following preliminary amendment into the above-referenced application.

ABSTRACT

Please insert the attached abstract into the application as the last page thereof.

CLAIMS

Please delete claims 1-30 as follows. Please enter new claims 31-58 as follows. A clean copy of the amended and new claims is included below.

31. (NEW) A communication system comprising  
a first communication device;

a first network control device for controlling a first network to which said first communication device is connected; and

a first interface establishing device connected between said first network control device and a transmitting network;

wherein

said first communication device and said first network control device are connected such that a use signal and a control signal are sent separately to said first network control device;

said control signal represents a tone signal;

said first network control device and said first interface establishing device are connected such that said use signal and said control signal are sent separately to said first interface establishing device,

said first interface establishing device is adapted to send said control signal and said control signal separately over said transmitting network; and

a tone generation means is provided on the far-end side of the network for receiving said control signal after transmission through said transmitting network and for generating said tone signal in response to said control signal.

32. (NEW) A communication system according to claim 31,

wherein

said first interface establishing device comprises a compressing means for compressing said use signal, the compressed signal being sent over said transmitting network.

33. (NEW) A communication system according to claim 32, further comprising  
a second interface establishing device connected to said transmitting network;

wherein

    said second interface establishing device comprises a decompressing means  
for decompressing said use signal received via said network, and said tone generation  
means.

34. (NEW) A communication system according to claim 33, further comprising

    a second communication device; and

    a second network control device; wherein

        said second interface establishing device is adapted to combine said use signal  
and said tone signal; and

        said network control device is adapted to receive said combined signal and to  
send it to said second communication device.

35. (NEW) A communication system according to claim 32, further comprising

    a second interface establishing device connected to said transmitting network;

and

    a second network control device; wherein

    said second interface establishing device comprises

        a decompressing means for decompressing said use signal  
received via said network; and

a control transfer means receiving said control signal and sending said control signal to said second network control device,  
wherein said second interface establishing device is adapted to send said use signal to said second network control device.

36. (NEW) A communication system according to claim 35, further comprising a second communication device; wherein  
said second network control device comprises said tone generation means; and  
said second network control device is adapted to combine said use signal and said tone signal and to send the combined signal to said second communication device.
37. (NEW) A communication system according to claim 36, further comprising a second communication device; wherein  
said second network control device is adapted to send said control signal and said use signal separately to said second communication device.
38. (NEW) A communication system according to claim 37, wherein  
said second communication device comprises said tone generation means.
39. (NEW) A communication system according to claim 31, wherein said tone signal generated in response to said control signal is a DTMF signal.

40. (NEW) A communication system according to claim 31, wherein said first communication means is adapted to generate said control signal in response to an operation of a key.

41. (NEW) A communication system according to claim 31, wherein said network is an IP based network.

42. (NEW) A communication system according to claim 31, wherein said first communication device is a mobile phone.

43. (NEW) A communication system according to claim 31, wherein said first communication device is a fixed phone.

44. (NEW) A communication system according to claim 31, wherein said second communication device is a mobile phone.

45. (NEW) A communication system according to claim 31, wherein said second communication device is a fixed phone.

46. (NEW) A communication system according to claim 31, wherein said first network control device and said first interface establishing means are constructed as one unit.

47. (NEW) A communication system according to claim 31, wherein  
said first network control device and said first interface establishing means are  
constructed as separate units.

48. (NEW) A communication system according to claim 31, wherein  
said second network control device and said first interface establishing means  
are constructed as one unit.

49. (NEW) A communication system according to claim 31, wherein said first  
network control device and said first interface establishing means are constructed as  
separate units.

50. (NEW) A communication system according to claim 31, further comprising a  
network communication device connectable directly to said network such that said  
control signal and said use signal is transmitted from said first interface establishing  
device to said network communication device.

51. (NEW) A communication system according to claim 50, wherein said network is  
an IP based network and said network communication device is an IP phone.

52. (NEW) A communication system according to claim 31, wherein said first  
network interface establishing means comprises a tone generator.

53. (NEW) A communication method for a communication system comprising a first communication device, a first network control device for controlling a first network to which said first communication device is connected and a first interface establishing device connected between said first network control device and a transmitting network; said method being characterized by comprising the steps of

sending a use signal and a control signal from said first communication device to said first network control device separately; wherein said control signal represents a tone signal;

sending said use signal and said control signal from said first network control device to said first interface establishing device separately;

receiving said control signal from said first network control device and sending said control signal over said transmitting network; and

receiving said control signal after transmission through said transmitting network by a tone generation means provided on the far-end side of the network;

and generating said tone signal in response to said control signal.

54. (NEW) A method according to claim 53, further comprising the step of compressing said use signal, the compressed signal being sent over said network.

55. (NEW) A method according to claim 54, further comprising the steps of receiving said compressed use signal and said control signal in a communication system on a far-end side of said network.

56. (NEW) A method according to claim 53, wherein said step of generating said tone signal is performed in a second interface establishing means.

57. (NEW) A method according to claim 53, wherein said step of generating said tone signal is performed in a second network control device.

58. (NEW) A method according to claim 57, wherein said step of generating said tone signal is performed in a second communication device.

**REMARKS**

The above preliminary amendment is made to insert an abstract page into the application and to enter new claims 31-58.

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952-912-0527.

Respectfully submitted,

Altera Law Group, LLC  
6500 City West Parkway, Suite 100  
Minneapolis, MN 55344-7701  
(952) 912-0527

Date: August 1, 2001

By:

  
Michael B. Lasky  
Reg. No. 29,555  
MBL/jsa